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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/963,486	09/27/2001	Gary Francis Morr	SAIC0061-US	8839
27510 7590 08/05/2003 KILPATRICK STOCKTON LLP 607 14TH STREET, N.W. SUITE 900 WASHINGTON, DC 20005			EXAMINER MENEFEE, JAMES A	
			ART UNIT	PAPER NUMBER
			2828	÷ •

DATE MAILED: 08/05/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Application No. MoRR ET AL.			A Comment of the Comm					
### Deficies Action Summary ### Deficies Action Summary ### Deficies Action Summary ### Deficies Action Summary ### ASHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. ### Six (8) MONTH'S from the mailing date of this communication. If the period for endy specified socie lises than this (1) dollars, a reply within the six of explanation of the period of th		Application No.	Applicant(s)					
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2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s)	 THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period v Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing eamed patent term adjustment. See 37 CFR 1.704(b). 	36(a). In no event, however, may a reply ly within the statutory minimum of thirty (30 vill apply and will expire SIX (6) MONTHS cause the application to become ABAND	pe timely filed) days will be considered timely. from the mailing date of this communication. ONED (35 U.S.C. § 133).					
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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Independent claims 1 and 14 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. It is not clear where the gain regions are located relative to the combustion region, other than that they are separated from the combustion region by the nozzle blades. This allows for locations other than those disclosed by the applicant, for example one could be located above the combustion region and one on the side. The elements should be claimed such that the gain regions and nozzle blades are disposed on opposing sides of the combustion region, as shown in Fig. 3.

Further, the gain regions and the combustion regions are not sufficiently described in the claims. More structure should be added to further specify such regions.

Independent claim 10 is rejected for omitting essential elements. There is nothing in the claims to suggest that the device will support any lasing action. Further structure, for example the addition of a gain region, should be added to the claim.

Claims 2-9, 11-13, and 15 are rejected for their dependency on the rejected base claims.

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Further, claim 13 recites the limitation "the isolation gas". There is insufficient antecedent basis for this limitation in the claim. It is believed that this claim should depend on claim 12.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 10-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Hook et al. (US 4,785,461).

Regarding claims 1 and 10, see the exploded view of Fig. 7, marked up below. Hook discloses a component for a combustion laser comprising at least one inlet manifold for receiving and distributing combustion fuel, at least one upper manifold sheet that inherently (because fuel is passing therethrough) has holes therein for receiving and further distributing the combustion fuel (combustion region), at least one pair of nozzle blade structures for receiving the combustion fuel from the upper manifold sheet, and at least one lower manifold sheet, wherein the elements are stacked one on the other and affixed to one another in a stacked relationship. The nozzle blades comprise a primary structure, as well as a secondary structure (i.e. secondary injector regions 44). There are inherently gain regions, as such regions are necessary for the operation of the laser. The nozzles will separate the gain regions from the combustion regions.

Regarding claims 2 and 3, the primary and secondary regions are made of different materials, thus one will withstand higher temperatures than the other.

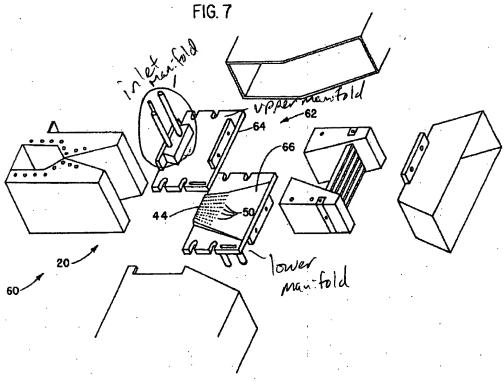
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Regarding claims 7 and 11, the tip of the primary nozzle blade structures have a serrated tip. See the tip on Fig. 3.

Regarding claims 8-9 and 12-13, the nozzle is enclosed in a shroud and an isolation gas, helium, is also injected.

Regarding claims 14 and 15, the claims are a combination of the elements of independent claims 1 and 10, and thus is disclosed as in those rejections above.



Hook, Fig. 7

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hook. Hook discloses the claimed invention as shown above, except does not disclose the materials of the nozzles. It would have been obvious to one having ordinary skill in the art at the time the invention was made to make the nozzles of such materials, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Menefee whose telephone number is (703) 605-4367. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on (703) 308-3098. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9318 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

JM July 28, 2003

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